IN THE CLAIMS:

1. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:

- (a) obtaining a biological sample from the subject; and
- (b) detecting a polymorphism of a NE transporter gene encoding an amino acid change in the biological sample from the subject, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.
- 2. (Original) The method of claim 1, wherein the susceptibility of the subject to sub-optimal NE transport is further characterized as susceptibility to orthostatic intolerance.
- 3. (Original) The method of claim 1, wherein the biological sample comprises a nucleic acid sample.
- 4. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:
 - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
 - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene comprises a G to C transversion within NE transporter exon 9 (nucleotides 129-257 of SEQ ID NO: 15), the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.
- 5. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:
 - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and

(b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene comprises a G to C transversion within NE transporter exon 9 (nucleotides 129-257 of SEQ ID NO: 15) and encodes a NE transporter polypeptide having a proline moiety at amino acid 457 of SEQ ID NO: 1, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.

- 6. (Currently amended) The method of claim [[3]] 5, wherein the polymorphism is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an amplification technique.
- 7. (Original) The method of claim 6, wherein the polymorphism is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an oligonucleotide pair, wherein a first oligonucleotide of the pair hybridizes to a first portion of the NE transporter gene, wherein the first portion includes the polymorphism of the NE transporter gene, and wherein the second of the oligonucleotide pair hybridizes to a second portion of the NE transporter gene that is adjacent to the first portion.
- 8. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:
 - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
 - (b) detecting a polymorphism of a NE transporter gene encoding an amino acid change in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an oligonucleotide pair, wherein a first oligonucleotide of the pair hybridizes to a first portion of the NE transporter gene including exon 9 (nucleotides 129-257 of SEQ ID NO: 15) and the polymorphism of the NE transporter

gene, and wherein the second oligonucleotide of the pair hybridizes to a second portion of the NE transporter gene that is adjacent to the first portion, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.

- 9. (Original) The method of claim 7, wherein the first and the second oligonucleotides each further comprise a detectable label, and wherein the label of the first oligonucleotide is distinguishable from the label of the second oligonucleotide.
- 10. (Original) The method of claim 9, wherein said label of said first oligonucleotide is a radiolabel, and wherein said label of said second oligonucleotide is a biotin label.
- 11. (Original) The method of claim 3, wherein the polymorphism is detected by sequencing a target nucleic acid in the nucleic acid sample from the subject.
- 12. (Original) The method of claim 11, wherein the sequencing comprises dideoxy sequencing.
- 13. (Original) The method of claim 3, wherein the step of detecting the polymorphism is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent.
- 14. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:
 - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
 - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent, wherein the reagent detects a G to C transversion within NE transporter exon 9

- (<u>nucleotides 129-257 of SEQ ID NO: 15</u>), the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.
- 15. (Currently amended) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport resulting in decreased NE clearance in a subject, the method comprising:
 - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
 - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent, wherein the reagent is an oligonucleotide primer as set forth in SEQ ID NO:9 or SEQ ID NO:10, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport resulting in decreased NE clearance.
- 16. (Original) The method of claim 1, wherein the biological sample comprises a polypeptide sample.
- 17. (Original) The method of claims 1, 2 or 3, wherein the subject is a human subject.
 - 18-79. (Canceled).
- 80. (Previously presented) The method of claim 5, wherein the susceptibility of the subject to sub-optimal NE transport is further characterized as susceptibility to orthostatic intolerance.

Please add the following new claim:

81. (New) The method of claim 5, wherein the polymorphism results in a norepinephrine transporter comprising an amino acid sequence as set forth in SEQ ID NO: 4.